

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000173

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ G11B7/135, G02B5/32, G11B7/09, 7/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ G11B7/09-7/135 G02B5/30-5/32

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 2001-202647 A (Matsushita Electric Industrial Co., Ltd.), 27 July, 2001 (27.07.01), Par. Nos. [0033] to [0063]; Figs. 3 to 8 & US 6597642 B1 & CN 1304133 A	1, 2, 8-10 3-7
Y	JP 2002-92902 A (Ricoh Co., Ltd.), 29 March, 2002 (29.03.02), Par. Nos. [0027] to [0110]; Figs. 4 to 10 (Family: none)	1, 2, 8-10
Y	JP 2003-151169 A (Sony Corp.), 23 May, 2003 (23.05.03), Par. Nos. [0017] to [0022], [0079]; Figs. 1, 19 (Family: none)	9, 10

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
12 April, 2005 (12.04.05)

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-123967 A (Victor Company Of Japan, Ltd.), 26 April, 2002 (26.04.02), Par. Nos. [0010] to [0066]; Figs. 1 to 9 & US 2002/8888 A1 & EP 1109163 A2	1-10
A	JP 2002-109759 A (Matsushita Electric Industrial Co., Ltd.), 12 April, 2002 (12.04.02), Par. Nos. [0090] to [0117]; Figs. 7 to 10 & US 2003/7436 A1 & CN 1343976 A	1-10
A	JP 8-17069 A (Olympus Optical Co., Ltd.), 19 January, 1996 (19.01.96), Par. Nos. [0048] to [0054]; Figs. 11 to 12 (Family: none)	1-10
A	JP 9-274730 A (NEC Corp.), 21 October, 1997 (21.10.97), Figs. 26, 30 & US 5875167 A & EP 791918 A1	9,10